CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/ML/W.No.14/2022-23 Date : 29.06.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.**

Name of Work : De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.

Date of Testing : 29.06.2022

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14	1.40	1.40	98.6	90-100
1.18	35	3.50	4.90	95.1	70-100
600 Micron	89	8.90	13.80	86.2	40-100
300 Micron	255	25.50	39.30	60.7	5-70
150 Micron	482	48.20	87.50	12.5	0-15

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ಟಿ ದಾಸರಹಳ್ಳಿ ವಲಯ ವಿಭಾಗ

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
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Job No.: CACE/BBMP/ML/W.No.14/2022-23 Date : 29.06.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.**

Name of Work De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.

Date of Testing : 29.06.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	192	3.8	3.8	96.2	95-100
10	2445	48.9	52.7	47.3	25-55
4.75	1965	39.3	92.0	8.0	0-10

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Job No.: CACE/BBMP/ML/W.No.14/2022-23 Date : 29.06.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.**

Name of Work De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.

Date of Testing : 29.06.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	196	1.31	1.31	98.69	95-100
20	8285	55.23	56.54	43.46	30-70
10	3234	21.56	78.10	21.90	10-35
4.75	2815	18.77	96.87	3.13	0-5

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Job No.: CACE/BBMP/ML/W.No.14/2022-23 Date : 29.06.2022

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client :Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.

Name of Work :De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.

Steel Dia/Length : 8mm,10mm ,12mm" Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 29.06.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.396	552	635	1.15	14
2	TMT	10	0.618	564	644	1.14	15.5
3	TMT	12	0.891	571	659	1.15	15.5

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Job No.: CACE/BBMP/ML/W.No.14/2022-23

Date: 08.07.2022

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Contractor	:	Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.
Name of Work	:	De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	08.07.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.379	2412.79	1.60	0.957	32.40	16.50	17.82	17.05	21.31
2	50.00	81.00	0.386	2427.01	1.62	0.959	32.80	16.70	18.04	17.30	21.63
3	50.00	82.00	0.398	2471.95	1.64	0.961	33.50	17.06	18.43	17.71	22.14

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Job No.: CACE/BBMP/ML/W.No.14/2022-23 Date: 07.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.
Name of the work	: De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.06.2022	07.07.2022	8.159	339.7	15.10
2	30.06.2022	07.07.2022	8.173	346.5	15.40
3	30.06.2022	07.07.2022	8.182	352.8	15.68

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Job No.: CACE/BBMP/ML/W.No.14/2022-23 Date: 28.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	:**Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.**
Name of the work	: De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.06.2022	28.07.2022	8.168	502.2	22.32
2	30.06.2022	28.07.2022	8.174	516.3	22.95
3	30.06.2022	28.07.2022	8.152	484.9	21.55

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/ML/W.No.14/2022-23 Date: 07.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency :**Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.**

Name of the work : De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.06.2022	07.07.2022	8.164	345.2	15.34
2	30.06.2022	07.07.2022	8.179	340.6	15.14
3	30.06.2022	07.07.2022	8.172	352.3	15.66

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Job No.: CACE/BBMP/ML/W.No.14/2022-23 Date: 28.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.
Name of the work	: De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.06.2022	28.07.2022	8.174	501.2	22.28
2	30.06.2022	28.07.2022	8.156	516.3	22.95
3	30.06.2022	28.07.2022	8.168	484.9	21.55

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Job No.: CACE/BBMP/ML/W.No.14/2022-23 Date: 09.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.
Name of the work	: De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.07.2022	09.07.2022	8.165	342.5	15.22
2	02.07.2022	09.07.2022	8.174	338.5	15.04
3	02.07.2022	09.07.2022	8.171	356.3	15.84

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Job No.: CACE/BBMP/ML/W.No.14/2022-23 Date: 30.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.
Name of the work	: De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.07.2022	30.07.2022	8.184	502.2	22.32
2	02.07.2022	30.07.2022	8.179	514.2	22.85
3	02.07.2022	30.07.2022	8.166	489.3	21.75

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Sukath. S. C.
Authorised Signatory

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Date: 09.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.
Name of the work	: De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.07.2022	09.07.2022	8.188	346.3	15.39
2	02.07.2022	09.07.2022	8.179	345.2	15.34
3	02.07.2022	09.07.2022	8.165	339.3	15.08

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For CIVIL AIM CONSULTANTS & ENGINEERS

Sukath. S. C.

Authorised Signatory

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CIVIL AIM CONSULTANTS & ENGINEERS
(Building Geo-Tech & Highway Materials Testing Laboratory)
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Job No.: CACE/BBMP/ML/W.No.14/2022-23

Date: 30.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.
Name of the work	: De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.07.2022	30.07.2022	8.184	505.2	22.45
2	02.07.2022	30.07.2022	8.165	516.3	22.95
3	02.07.2022	30.07.2022	8.146	488.9	21.73

Note:

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Job No.: CACE/BBMP/ML/W.No.14/2022-23

Date :15.07.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.**

Name of Work :De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing :15.07.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	186	186	1.9	98.1	95-100
22.4	2531	2717	27.2	72.8	60-80
11.2	2140	4857	48.6	51.4	40-60
4.75	1843	6700	67.0	33.0	25-40
2.36	1188	7888	78.9	21.1	15-30
0.600	580	8468	84.7	15.3	8-22
0.075	1229	9697	97.0	3.0	0-5

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Job No.: CACE/BBMP/ML/W.No.14/2022-23 Date :15.07.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.**

Name of Work :De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing :15.07.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	196	196	2.0	98.0	95-100
22.4	2520	2716	27.2	72.8	60-80
11.2	2152	4868	48.7	51.3	40-60
4.75	1832	6700	67.0	33.0	25-40
2.36	1185	7885	78.9	21.2	15-30
0.600	621	8506	85.1	14.9	8-22
0.075	1239	9745	97.5	2.6	0-5

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Job No.: CACE/BBMP/ML/W.No.14/2022-23 Date :15.07.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.**

Name of Work :De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing :15.07.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	182	182	1.8	98.2	95-100
22.4	2532	2714	27.1	72.9	60-80
11.2	2150	4864	48.6	51.4	40-60
4.75	1844	6708	67.1	32.9	25-40
2.36	1197	7905	79.1	21.0	15-30
0.600	585	8490	84.9	15.1	8-22
0.075	1225	9715	97.2	2.8	0-5

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Job No.: CACE/BBMP/ML/W.No.14/2022-23

Date: 15.07.2022

Aggregate Impact Value

Client	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Agency	Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.
Name of the Work	De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte, BBMP , Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	15.07.2022

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	379	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	88	89	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	292	290	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	23.16	23.48	23.32

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Job No.: CACE/BBMP/ML/W.No.14/2022-23

Date: 15.07.2022

Aggregate Impact Value

Client	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Agency	Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.
Name of the Work	De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte, BBMP , Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	15.07.2022

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	382	382	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	87	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	295	294	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.77	23.04	22.91

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Date : 15.07.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.**
Name of Work	De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	15.07.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.20	11.50	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.70	13.10	
	Combined Flakiness & Elongation index	23.90	24.60	

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Date : 15.07.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.**
Name of Work	De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	15.07.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.10	11.90	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.60	13.20	
	Combined Flakiness & Elongation index	25.70	25.10	

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DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.**
Name of Work	De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	15.07.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.10	11.90	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.60	13.20	
	Combined Flakiness & Elongation index	25.70	25.10	

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ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.**

Name of Work : De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 13.07.2022 to 15.07.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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ATTERBERG LIMITS TEST FOR WMM

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.

Name of Work : De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 13.07.2022 to 15.07.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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ATTERBERG LIMITS TEST FOR WMM

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.

Name of Work : De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 13.07.2022 to 15.07.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	22.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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JobNo: CACE/BBMP/ML/W.No.14/2022-23 Date : 18.07.2022

TEST RESULTS OF AGGREGATE IMPACT VALUE

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency : **Sri Muniswamappa Lakshminarayana, Contractor, Bangalore.**
Name of work : De-silting and Re-setting of drain and Re-asphalting to 3rd main 4th main 7th main road of MEI Layout in Ward No.14,Bagalagunte,BBMP ,Bangalore.
Source / Location : Hot Mix Plant, Bangalore
BIS Code : IS 2386 Part (4):1963
Type of Mix : Dense Graded Bituminous Macadam
Date of test : 18.07.2022

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W1 g	382	384	
2	Weight of agregate passing 2.36 mm sieve after the test = W2 g	85	87	
3	Weight of aggregate retained 2.36 mm sieve after the test = W3 g	297	297	
5	Aggregate Impact value = percent fines	22.25	22.66	22.45
	100* (W2/W1) percent			

Comments:
→ Maximum allowable Aggregate Impact value for Dense Graded Bituminous Macadam is 27% (Table 500-8 of MORTH specification)

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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